## OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION

## ATTACHMENT 20 (SEDIMENTATION POND/IMPOUNDMENT DATA SHEET)

		corporacion		PONG # <u>12</u>
e of	impoundment <u>Excavated</u>	Permanent _	Ť.	emporary X
PONI	D DRAINAGE AREA DATA:			
b) c) d) e)	Disturbed area 3.20 a Ave. land slope 20 Hydrologic soil group C Hydraulic length 1645 f	ecres %	asture/Fair	·
DESI	IGN STORM CRITERIA:			
a)	Method:			
	1) Design method (s) in 2) SCS curve number	cluding compu various (see	ter program run sheets	s: SEDCAD 4.0
b)	Rainfall Amount/Peak Flow	Rainfa	ll,in.	Peak flow, cfs.
	<pre>1) 10 year, 24 hour = 2) 25 year, 24 hour = 3) 50 year, 6 hour =    (if permanent) 4) 100 year, 6 hour =    (if 20/20 size)</pre>	<u>3</u> 4	. 7	15.8 18.9
POND	SIZE:			
a)	Dimensions: N/A Excavated Po	nd		
1) 2) 3)	Dam height ft. 4 Dam width ft.(MIN) 5 Dam length ft. 6	) Dam downst: ) Dam upstrea ) Core length	ream slope am slope nft	% (MAX) % (MAX) ftft
b)	Sediment storage volume $1.4$ elevation.	<u>17</u> ac.ft. is p	rovided bel	low the <u>991.5</u> foo
c)	Stage/Area Data:			rea Volume acft.
1 \	Bottom of pond Streambed at upstream toe:	ft. 988.0 N/A	ac. 0.34 N/A	0 N/A
	a) b) c) d) e) f) DES: a) b)	b) Disturbed area 3.20 a c) Ave. land slope 20 d) Hydrologic soil group C e) Hydraulic length 1645 f f) Cover/condition of the undis  DESIGN STORM CRITERIA:  a) Method:  1) Design method (s) in 2) SCS curve number  b) Rainfall Amount/Peak Flow  1) 10 year, 24 hour = 2) 25 year, 24 hour = 3) 50 year, 6 hour = (if permanent) 4) 100 year, 6 hour = (if 20/20 size)  POND SIZE:  a) Dimensions: N/A Excavated Po  1) Dam height ft. 4 2) Dam width ft. (MIN) 5 3) Dam length ft. 6  b) Sediment storage volume 1.4	a) Drainage area 7.69 acres b) Disturbed area 3.20 acres c) Ave. land slope 20 % d) Hydrologic soil group C e) Hydraulic length 1645 ft. f) Cover/condition of the undisturbed area P  DESIGN STORM CRITERIA: a) Method:  1) Design method (s) including compu 2) SCS curve number various (see b) Rainfall Amount/Peak Flow Rainfa  1) 10 year, 24 hour = 3 2) 25 year, 24 hour = 4 3) 50 year, 6 hour = (if permanent) 4) 100 year, 6 hour = (if 20/20 size)  POND SIZE: a) Dimensions: N/A Excavated Pond  1) Dam height ft. 4) Dam downst: 2) Dam width ft. (MIN) 5) Dam upstred 3) Dam length ft. 6) Core length b) Sediment storage volume 1.47 ac.ft. is pelevation.	a) Drainage area

	POND #12
4.	, ,
	a) Pipe length ft. b) Pipe diameter in.
	b) Pipe diameter in. c) Pipe slope %
	d) Riser diameter in.
	e) Riser height ft.
	f) Type of pipe; spacing along pipe ft.
	h) Does the design include a trash rack? Yes, No.
	i) Does the design include an anti-vortex device? Yes, No.
5.	
	a) Base width 12 ft.
	b) Design flow depth 0.3 ft. Depth in level section 0.8 ft. c) Exit slope 27.6 %
	d) Exit velocity 5.3 fps
	e) Channel lining Rock Riprap
	f) Side slopes 2:1 g) Freeboard 1.7 ft. h) Entrance slope 50.0 %
	g) Freeboard 1.7 ft.  h) Entrance clone 50.0 %
	i) Length of level section 20 ft.
6.	The minimum static factor of safety for this impoundment is1.5
7.	Provide as an addendum to this attachment a detailed plan view or 2 cross sections of the impoundment.
8.	COMMENTS
9.	Is this an MSHA structure?Yes, _X_ No. If "yes," provide the MSHA ID. number if one has been assigned
	FISHA 15. Humber 11 One has been assigned
10.	If this is to be retained as a permanent impoundment, submit an addendum
	to this attachment demonstrating compliance with rule 1501:13-9-04(H) (2) of the Administrative Code.
11.	I hereby certify that this impoundment is designed to comply with the
	applicable requirements of rule 1501:13-9-04 of the Administrative Code
	using current, prudent engineering practices.
	William Dupluy 10 July 2002
	Signature Date
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	P.E. SEAL  P.E. SEAL  WILLIAM  SIPLIVY  SIPLIVY  F-51015  SIPLIVY  F-51015  SIPLIVY  F-51015  SIPLIVY  F-51015  SIPLIVY  F-51015  SIPLIVY  F-51015
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